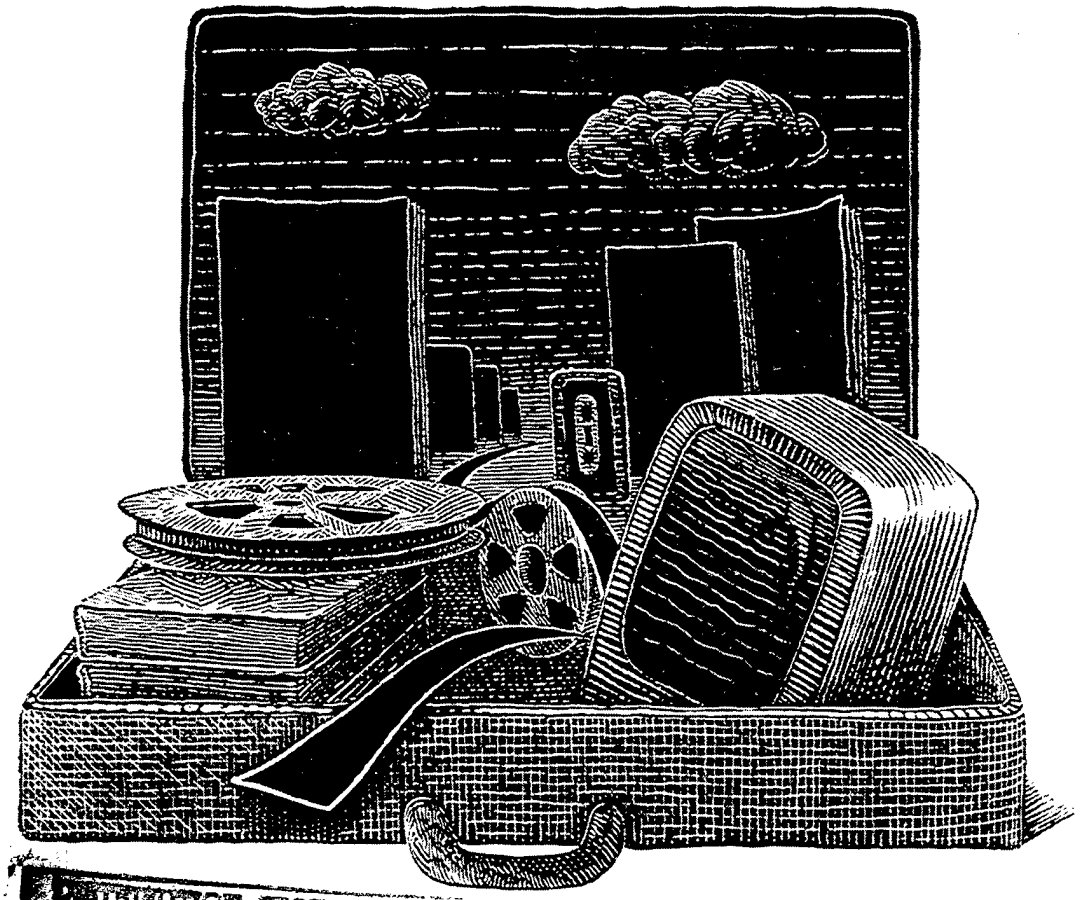
# INFORMATION

## A Selected Bibliography



DISTRIBUTION STATEMENT A
Approved for public release;
Distribution Unlimited

DTIC QUALITY INSPECTED 4

## U.S. Army War College Library

February 1998

19980323 131

# PREFACE

Information: A Selected Bibliography was compiled to support one of the special themes of the U.S. Army War College's curriculum. Focusing primarily on information warfare and operations, it also includes citations for other contemporary information issues such as information technology, information management, and the information highway. All references are dated 1995 to the present.

Items listed in this bibliography are available in the U.S. Army War College Library collection. For your convenience, we have added our call numbers at the end of each entry. Please keep in mind that call numbers may vary from library to library.

This bibliography is also available on the Internet through our Library's home page (URL: http://carlisle-www.army.mil/library/).

For additional information, please contact the Research and Information Services Branch, U.S. Army War College Library, by sending an e-mail message to awcsl-r@carlisle-emh2.army.mil, or by phoning DSN 242-4280 or Commercial (717) 245-4280.

Virginia C. Shope, compiler

# INFORMATION

## A Selected Bibliography

## Contents

Information Warfare and Operations ..... 1

Information Highway ..... 23

Information Technology, Management, Other Information Concepts... ..... 29

Related Bibliographies ..... 37

# INFORMATION WARFARE AND OPERATIONS

## Books and Documents


Adams, John A., Jr. Future Warriors: Special Operations Forces in the 21st Century. Strategy Research Project. Carlisle Barracks: US Army War College, 1 June 1996. 33pp. (AD-A311-163)

Alberts, David S. Defensive Information Warfare. Fort McNair: National Defense University, Institute for National Strategic Studies, Center for Advanced Concepts and Technology, 1996. 80pp. (U411 .I6A411 1996)
Also available on the Internet <http://198.80.36.91/ndu/inss/books/diw/index.html>. Accessed 2 December 1997.

Aldrich, Richard W. The International Legal Implications of Information Warfare. INSS Occasional Paper 9, Information Warfare Series. Colorado Springs: US Air Force Academy, Institute for National Security Studies, April 1996. 33pp. (UG638.5 .F7O3 no.9)

Arquilla, John, and David Ronfeldt, eds. In Athena's Camp: Preparing for Conflict in the Information Age. Santa Monica: Rand, 1997. 501pp. (U21.2 .A74 1997)

Ashman, Bruce W. Defensive Information Warfare in Today's Joint Operations: What's the Real Threat? Strategy Research Project. Carlisle Barracks: US Army War College, 7 April 1997. 40pp. (AD-A326-368)

Barac, Gregory G. Interoperability: The Cornerstone of Information Warfare. Strategy Research Project. Carlisle Barracks: US Army War College, 12 April 1996. 24pp. (AD-A312-146)

Bishop, Roy V. Information Operations: A Layman's Perspective. Strategy Research Project. Carlisle Barracks: US Army War College, 1 April 1997. 30pp. (AD-A327-427)

Black, Steven K. A Sobering Look at the Contours of Cyberspace. Ridgway Viewpoints No. 96-3. Pittsburgh: University of Pittsburgh, Ridgway Center for International Security Studies, June 1996. 73pp. (UA10.5 .R5 no.96-3)

Bondi, James J. Strategic Wargaming: JLASS [Joint Land, Aerospace, and Sea Simulation] into the 21st Century. Strategy Research Project. Carlisle Barracks: US Army War College, 7 April 1997. 32pp. (AD-A326-400)

Boslego, David V. The Relationship of Information to the Relative Combat Power Model in Force XXI Engagements. Fort Leavenworth: US Army Command and General Staff College, School of Advanced Military Studies, 18 December 1995. 65pp. (U415 .A42 96 B57)

Brock, George S. Implementation of Information Sanctions. Strategy Research Project. Carlisle Barracks: US Army War College, 14 April 1997. 31pp. (AD-A326-592)

Brock, Jack L., Jr. Information Security: Computer Attacks at Department of Defense Pose Increasing Risks: Statement before the Permanent Subcommittee on Investigations, Committee on Governmental Affairs, U.S. Senate. Washington: US General Accounting Office, 22 May 1996. 7pp. (QA76.9 .A25B76 1996)

Campen, Alan D., Douglas H. Dearth, and R. Thomas Goodden, eds. Cyberwar: Security, Strategy, and Conflict in the Information Age. Fairfax: AFCEA International Press, 1996. 296pp. (UA10.5 .C94 1996)

Cohen, William S. "Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance." Chap. 8 in Annual Report to the President and the Congress. Washington: US Department of Defense, 1998. 1 vol. (UA23 .A51S2 1998)

Dempsey, Thomas A. Riding the Tiger: Exploiting the Revolution in Military Affairs to Transform the Battlefield. Carlisle Barracks: US Army War College, 15 April 1996. 26pp. (AD-A309-303)

Doyle, Kevin J. Information Operations: A Look at Emerging Army Doctrine and Its Operational Implications. Fort Leavenworth: US Army Command and General Staff College, School of Advanced Military Studies, 1995. 49pp. (U415 .A42 95 D58)

Eisen, Stefan, Jr. Netwar, It's Not Just for Hackers Anymore. Newport: US Naval War College, 22 June 1995. 24pp. (V420 .E37 1995)

Farrell, Peter T. A National Security Strategy for Information Assurance. Strategy Research Project. Carlisle Barracks: US Army War College, 7 April 1997. 33pp. (AD-A326-942)

Fast, Barbara G. Building Situational Awareness in Force XXI. Strategy Research Project. Carlisle Barracks: US Army War College, 15 April 1996. 43pp. (AD-A309-443)

Fast, William R. Knowledge Strategies: Balancing Ends, Ways, and Means in the Information Age. Strategy Research Project. Carlisle Barracks: US Army War College, 15 April 1996. 27pp. (AD-A309-474)

Fredericks, Brian. Information Warfare: The Organizational Dimension. Strategy Research Project. Carlisle Barracks: US Army War College, 7 February 1996. 26pp. (AD-A309-782)

Garian, Robert. Information Warfare: Russia, France, and the United Kingdom. Washington: US Library of Congress, Federal Research Division, November 1995. 30pp. (UB246 .G16 1995)

Gray, Colin S. The American Revolution in Military Affairs: An Interim Assessment. Camberley, Eng.: Strategic and Combat Studies Institute, 1997. 56pp. (U163 .S7 no.28)

Greaney, Kevin J. The Year 2000 Problem: Catalyst or Cataclysm for Future Information Operations? Strategy Research Project. Carlisle Barracks: US Army War College, 26 March 1997. 29pp. (AD-A326-674)

Guthrie, Samuel A. Knowledge-Based Operations: The "So What" of Information Warfare. Fort Leavenworth: US Army Command and General Staff College, School of Advanced Military Studies, 19 May 1995. 53pp. (U415 .A42 95 G871)

Hall, Larry P. National Military Strategy: Information Warfare. Strategy Research Project. Carlisle Barracks: US Army War College, 7 April 1997. 29pp. (AD-A326-624)

Harley, Jeffrey A. Information, Technology, and the Center of Gravity. Newport: US Naval War College, 14 June 1996. 46pp. (V420 .H261 1996)

Harley, Jeffrey A. The Role of Information Warfare: Truth and Myths. Newport: US Naval War College, 14 June 1996. 23pp. (V420 .H26 1996)

Hengst, Paul T. Managing the Intelligent Information Grid for the Army After Next. Strategy Research Project. Carlisle Barracks: US Army War College, 1 April 1997. 34pp. (AD-A326-627)

Horner, Stephen C. Cryptography, Information Operations and the Industrial Base: A Policy Dilemma. Strategy Research Project. Carlisle Barracks: US Army War College, 7 April 1997. 28pp. (AD-A326-657)

Isensee, Ernst K. Impacts on the Operational Commander in the Information Age. Newport: US Naval War College, Department of Operations, 13 February 1995. 17pp. (V420 .I72 1995)

Johnson, Robert E. Information Warfare: Impacts on Command and Control Decision-Making. Strategy Research Project. Carlisle Barracks: US Army War College, 15 April 1996. 29pp. (AD-A309-107)

Johnson, Stuart E., and Martin C. Libicki, eds. Dominant Battlespace Knowledge. Rev. ed. Fort McNair: National Defense University, 1996. 130pp. (U411 .I6D66 1996)

Judy, Daniel R. After Recognition Comes Implementation: The Challenges for the Information Age Revolution in Military Affairs. Strategy Research Project. Carlisle Barracks: US Army War College, 18 April 1997. 41pp. (AD-A326-625)

Kennedy, Kevin J., Bruce M. Lawlor, and Arne J. Nelson. Grand Strategy for Information Age National Security: Information Assurance for the Twenty-First Century. Maxwell Air Force Base: Air University Press, August 1997. 86pp. (UG635.3 .K25 1997)
The authors were National Security Fellows at Harvard University, Kennedy School of Government, during the 1995-96 academic year, when they researched and wrote this paper. Copies are also available in our Library's student papers file. (AD-A311-158)

Killam, Timothy B. Weapons of Mass Disruption for the Operational Info-Warrior. Newport: US Naval War College, 12 February 1996. 20pp. (V420 .K33 1996)

Kirk, David C. Artificial Intelligence Applications to Information Warfare. Strategy Research Project. Carlisle Barracks: US Army War College, 22 March 1996. 32pp. (AD-A309-400)

Kirsch, Robert A., II. Viruses and Other Computer Pathogens: Should DOD Care? Strategy Research Project. Carlisle Barracks: US Army War College, 1 April 1997. 27pp. (AD-A326-780)

Klinefelter, Stephen. The National Security Strategy and Information Warfare. Strategy Research Project. Carlisle Barracks: US Army War College, 7 April 1997. 28pp. (AD-A326-621)

Kuschner, Karl W. Legal and Practical Constraints on Information Warfare. Newport: US Naval War College, 1996. 17pp. (V420 .U51K87 1996)

La Perla, Philip A. Creating Information Knowledgeable Leaders through Information Operations Education. Strategy Research Project. Carlisle Barracks: 1 April 1997. 44pp. (AD-A326-793)

Lasher, William T. Data Interoperability for Systems of Systems: Our Acquisition Paradigm Must Change to Achieve It. Strategy Research Project. Carlisle Barracks: US Army War College, 16 April 1997. 38pp. (AD-A326-619)

Libicki, Martin C. Defending Cyberspace and Other Metaphors. Fort McNair: National Defense University, Institute for National Strategic Studies, Center for Advanced Concepts and Technology, 1997. 110pp. (U411 .I6L31 1997)

Libicki, Martin C. What Is Information Warfare? Fort McNair: National Defense University, Institute for National Strategic Studies, Center for Advanced Concepts and Technology, August 1995. 104pp. (U411 .I6L53 1995)

Lin, Taiying. Analysis of Protection of Electronic Information in the Gulf War. Translation. Wright-Patterson Air Force Base: US National Air Intelligence Center, 1996. 19pp. (DS79.744 .S34L35 1996)
Source: China Astronautics and Missilery Abstracts 2, no. 3 (1995): 28-33.

McCain, Steven A. Information Dominance: Special Operations Forces in MOOTW [Military Operations Other Than War]. Strategy Research Project. Carlisle Barracks: US Army War College, 15 April 1997. 44pp. (AD-A326-756)

McClair, Ronald L. Force XXI and Sea Dragon: Issues for the Operational Commander. Newport: US Naval War College, 14 June 1996. 18pp. (V420 .M33 1996)

McCollum, William W. The Role of the Intelligence Community in Preparing to Win the Information War. Strategy Research Project. Carlisle Barracks: US Army War College, 10 April 1997. 22pp. (AD-A326-646)

McKindra, Alex B. Budget Strategy for an Army After Next. Strategy Research Project. Carlisle Barracks: US Army War College, 13 May 1997. 42pp. (AD-A326-770)

Mengxiong, Chang. Prospects for Weapons, Troops, and Battlefields in the Information Age. Translation. Wright-Patterson Air Force Base: US National Air Intelligence Center, 1996. 33pp. (UG485 .M5 1996)

Molander, Roger C., Andrew S. Riddile, and Peter A. Wilson. Strategic Information Warfare: A New Face of War. Santa Monica: Rand, 1966. 90pp. (U163 .M65 1996)

Nowowiejski, Dean A. Concepts of Information Warfare in Practice: General George S. Patton and the Third Army Information Service, August-December, 1944. Fort Leavenworth: US Army Command and General Staff College, School of Advanced Military Studies, 19 May 1995. 52pp. (U415 .A42 95 N581)

Nunn, James H. Leadership Challenges in the Digital World. Strategy Research Project. Carlisle Barracks: US Army War College, 15 April 1997. 31pp. (AD-A326-545)

Orr, Joseph E. Information Dominance: A Policy of Selective Engagement. Strategy Research Project. Carlisle Barracks: US Army War College, 8 April 1997. 24pp. (AD-A326-787)

Partridge, William J. Planning for Space Systems to Be Employed by the U.S. Army. Strategy Research Project. Carlisle Barracks: US Army War College, 7 April 1997. 25pp. (AD-A326-569)

Pistilli, David B. Start Making Sense: Managing the Command's Information. Fort Leavenworth: US Army Command and General Staff College, School of Advanced Military Studies, 17 December 1995. 54pp. (U415 .A42 95 P37)

Rader, Karl A. Blockades and Cyberblocks: In Search of Doctrinal Purity: Will Maritime Interdiction Work in Information Age Warfare? Fort Leavenworth: US Army Command and General Staff College, School of Advanced Military Studies, 19 May 1995. 58pp. (U415 .A42 95 R12)

Reimer, Dennis J. "Information Superiority." P. 17 in Army Vision 2010. Washington: US Department of the Army, 1996. 18pp. (UA23 .A511R23 1996)
Also available on the Internet <http://www.army.mil/2010/>. Accessed 12 February 1998.

Riggins, James. Out of the Web and Into the Revolution: A Perspective of Strategic Airpower in the Information Age. Fort Leavenworth: US Army Command and General Staff College, School of Advanced Military Studies, 19 May 1995. 47pp. (U415 .A42 95 R32)

Ross, Mitchell S. National Information Systems: The Achilles Heel of National Security. Strategy Research Project. Carlisle Barracks: US Army War College, 3 April 1997. 30pp. (AD-A326-792)

Rowe, Wayne J. Information Warfare: A Primer for Navy Personnel. Newport: US Naval War College, Center for Naval Warfare Studies, Strategic Research Department, 1995. 34pp. (V420 .C51 95-6)

Schwartzstein, Stuart J.D., ed. The Information Revolution and National Security: Dimensions and Directions. Washington: Center for Strategic and International Studies, 1996. 263pp. (UA23 .I39 1996)

Science Applications International Corporation. Information Warfare: Legal, Regulatory, Policy and Organizational Considerations for Assurance. Research report prepared for Chief, Information Warfare Division (J6K), Command, Control, Communications and Computer Systems Directorate, Joint Staff. McLean: Science Applications International Corporation, 4 July 1995. 1 vol. (QA76.9 .A25I52 1995)

Sexton, Joanne. A Combatant Commander's Organizational View of Information Warfare and Command and Control Warfare. Newport: US Naval War College, 16 June 1995. 27pp. (V420 .S29 1995)

Shalikashvili, John M. Joint Vision 2010. Washington: US Joint Chiefs of Staff, 1996. 34pp. (UA23 .A51J5 1996)
Also available on the Internet <http://www.dtic.mil/doctrine/jv2010/jvpub.htm>. Accessed 28 February 1998.

Sprowls, Laura J. Strategic Vision for Theater Intelligence: Supporting the Requirements of the 21st Century Warfighter. Strategy Research Project. Carlisle Barracks: US Army War College, 27 March 1996. 33pp. (AD-A308-967)

Stewart, Michael J. Information Operations, Information Warfare: Policy Perspectives and Implications for the Force. Strategy Research Project. Carlisle Barracks: US Army War College, 15 April 1997. 34pp. (AD-A326-791)

Sullivan, Gordon R., and James M. Dubik. Envisioning Future Warfare. Fort Leavenworth: US Army Command and General Staff College Press, 1995. 67pp (UA23 .S882 1995)

Sullivan, Michael P. Revolution in Military Affairs: Its Impact on Operational Fires and the Future Battlefield. Strategy Research Project. Carlisle Barracks: US Army War College, 5 April 1996. 27pp. (AD-A309-398)

Tempestilli, Mark. Waging Information Warfare: Making the Connection between Information and Power in a Transformed World. Newport: US Naval War College, 12 November 1995. 44pp. (V420 .T25 1995)

Thomas, Timothy L. Dialectical versus Empirical Thinking: Ten Key Elements of the Russian Understanding of Information Operations. Fort Leavenworth: Foreign Military Studies Office, July 1997. 19pp. (U520 .R1 1997 T35)

Thomas, Timothy L. The Russian PSYOP and Information Operations Interface. Fort Leavenworth: Foreign Military Studies Office, June 1996. 12pp. (U415 .F5T356 1996)

Thomas, Timothy L. Russian Views on Information-Based Warfare. Fort Leavenworth: Foreign Military Studies Office, 1996. 11pp. (U415 .F5T357 1996)
Originally appeared in Airpower Journal 10 (Special Edition 1996): 25-35.

Thompson, Michael J. Information Warfare—Who Is Responsible? Coordinating the Protection of Our National Information Infrastructure. Strategy Research Project. Carlisle Barracks: US Army War College, 3 March 1997. 41pp. (AD-A326-536)

Toffler, Alvin, and Heidi Toffler. War and Anti-War. New York: Warner Books, 1995. 370pp. (U102 .T641 1995)

US Air Force. New World Vistas: Air and Space Power for the 21st Century: Information Applications Volume. Washington: US Department of the Air Force, June 1996. 79pp. (UG633 .U6268 1996)

US Defense Science Board. Task Force on Information Warfare-Defense. Report of the Defense Science Board Task Force on Information Warfare-Defense (IW-D), by Duane Andrews. Washington: US Office of the Under Secretary of Defense for Acquisition and Technology, November 1996. 262pp. (UB247 .A52 1996)

US Department of the Army. Information Operations. Field Manual 100-6. Washington: US Department of the Army, 27 August 1996. 1 vol. (Mil. Pubs.)

US General Accounting Office. Information Security: Computer Attacks at Department of Defense Pose Increasing Risks: Report to Congressional Requesters. Washington: US General Accounting Office, May 1996. 44pp. (QA76.9 .A25U546 1996)

US Joint Chiefs of Staff. Information Warfare: A Strategy for Peace...The Decisive Edge in War. Washington: US Joint Chiefs of Staff, 1996. 19pp. (UA23.7 .I53 1996)

US Joint Warfighting Center. Concept for Future Joint Operations: Expanding Joint Vision 2010. Fort Monroe: US Joint Warfighting Center, May 1997. 88pp. (UA23.3 .C55 1997)

US National Defense Panel. "Information Operations." Pp. 13-14 in Transforming Defense: National Security in the 21st Century. Arlington: US National Defense Panel, December 1997. 94pp. (Ref UA23 .T782 1997)
Also available on the Internet <http://www.dtic.mil/ndp/>. Accessed 12 January 1998.

US National Security Agency. Central Security Service. National Cryptologic Strategy for the 21st Century. Fort Meade: US National Security Agency, Central Security Service, June 1996. 21pp. (UB256 .U6N27 1996)

Ward, Thomas E., II. Information Warfare: Is It Feasible? Desirable? Strategy Research Project. Carlisle Barracks: US Army War College, 29 March 1996. 35pp. (AD-A309-292)

Wheatley, Gary F., and Richard E. Hayes. "Information Warfare and Deterrence." National Defense University, Institute for National Strategic Studies, December 1996. Available from <http://www.ndu.edu/ndu/inss/books/iwd/index.html>. Internet. Accessed 2 December 1997.

Whisenhunt, Robert H. Information Warfare and the Lack of a U.S. National Policy. Strategy Research Project. Carlisle Barracks: US Army War College, 15 April 1996. 28pp. (AD-A309-392)

## Videos

Digital Cavalry: Force XXI. N.p.: Illusion, 1995. 1 videorecording, 12 mins. (Videos UG1233 .D54 1995)

Discusses the impact of information technology on military operations.

US Department of the Army. Louisiana Maneuvers Task Force. Force XXI: Your Future Army—Continuing to Grow. Fort Monroe: Louisiana Maneuvers Task Force, 1995. 1 videorecording, 15 mins. (Videos UA25 .F56 1995)

US Joint Warfighting Center. Joint Vision 2010: Full Spectrum Dominance. Fort Monroe: US Joint Warfighting Center, 1997. 1 videorecording, 22 mins. (Videos UA23.3 .J65 1997)

## Periodical Articles

Ackerman, Robert K. "Battlespace System Offers Data Anywhere, Anytime." Signal 51 (January 1997): 26-29.

Ackerman, Robert K. "Information Officers Disseminate, Protect Intelligence Agency Data." Signal 51 (July 1997): 59-62.

Ackerman, Robert K. "Military Planners Gird for Information Revolution." Signal 49 (May 1995): 71-76.

Ackerman, Robert K. "Navy Doctrine, Systems Face Information Warfare Makeover." Signal 50 (July 1996): 57-60.

Aldrich, Richard W. "The International Legal Implications of Information Warfare." Airpower Journal 10 (Fall 1996): 99-110.

Alexander, David. "Information Warfare and the Digitised Battlefield." Military Technology 19 (September 1995): 57-64.

Alger, John I. "Declaring Information War: Early Training Crucial to Awareness." Jane's International Defense Review 29 (July 1996): 54-55.

Anderson, Gary W., and Terry C. Pierce. "Leaving the Technocratic Tunnel." Joint Force Quarterly, no. 10 (Winter 1995-1996): 69-75.

Anthony, Keith D. "Information Warfare: Good News and Bad News." Military Intelligence 23 (January-March 1997): 31-34.

Arnold, Wallace C., and Thomas H. Killion. "MANPRINT [Manpower and Personnel Integration]: Battle Command and Digitization." Military Review 75 (May-June 1995): 48-55.

Bates, Troy R. "Internet Support to Expeditionary Forces: Filling the Intelligence Gap." Marine Corps Gazette 81 (June 1997): 41-43.

Bergman, Kenneth R. "Space and the Revolution in Military Affairs." Marine Corps Gazette 79 (May 1995): 58-60.

Blaker, Jim. "The Owens Legacy: The Former Vice Chairman of the Joint Chiefs Laid the Groundwork for a Revolution." Armed Forces Journal International 133 (July 1996): 20-22.

Blount, Kerry A. "A Two-Component Strategy for Winning the Information War." Army 45 (January 1995): 10-11.

Blount, Kerry A. "Wrestling with Information Warfare's 'Dark Side.'" Army 46 (February 1996): 9-15.

Blount, Kerry A., and Lauren D. Kohn. "$C^2$ [Command and Control] Warfare in FM [Field Manual] 100-6." Military Review 75 (July-August 1995): 66-69.
Field Manual 100-6, entitled Information Operations, was published in August 1996.

Boorda, Jeremy M. "Leading the Revolution in $C^4I$ [Command, Control, Communications, Computer, and Intelligence]." Joint Force Quarterly, no. 9 (Autumn 1995): 14-17.
Article discusses the Navy and information warfare.

"Bosnia's Information River Slows, Trickles to Solders." Signal 51 (June 1997): 87-90.

Braunberg, Andrew C. "Air Force Pursues Two-Sided Information Warfare Strategy." Signal 50 (July 1996): 63-65.

Brown, Christopher E. "The 'Q' Transition." Proceedings: U.S. Naval Institute 123 (February 1997): 57-61.
Author suggests that the United States "must plan now to build the definitive information-era warship."

Bulloch, G. "The Application of Military Doctrine to Counterinsurgency (COIN) Operations: A British Perspective." Studies in Conflict and Terrorism 19 (July-September 1996): 247-59.
Examines the scope and role of information warfare in counterinsurgency operations.

Bunker, Robert J. "Advanced Battlespace and Cybermaneuver Concepts: Implications for Force XXI." Parameters 26 (Autumn 1996): 108-20.

Bunker, Robert J. "Generations, Waves, and Epochs: Modes of Warfare and the RPMA [Revolution in Political and Military Affairs]." Airpower Journal 10 (Spring 1996): 18-28.

Burgess, Seán P. "Industry, Government Pursue Data Security Clearinghouse." Signal 51 (March 1997): 69-71.

Burke, Charles M. "The 'Bondage of Tradition.'" Military Review 75 (July-August 1995): 10-12.
To principles, procedures, and protocols.

Busey, James B., IV. "Battlefield Technologies Muster in Synthetic Arenas." Signal 49 (July 1995): 15.

Busey, James B., IV. "Integral Security Mechanisms Are Priority, Not Afterthought." Signal 50 (October 1995): 13.

"Businesses Face Threat of Information Warfare." Signal 50 (June 1996): 45-46.

Campen, Alan D. "Assessments Necessary in Coming to Terms with Information War." Signal 50 (June 1996): 47-49.

Campen, Alan D. "Cooperative Effort Encourages Safe Information Highway Travel." Signal 50 (October 1995): 43-44.

Campen, Alan D. "It's Vulnerability, Not Threat-Stupid!" Signal 52 (September 1997): 69-70.

Campen, Alan D. "Rush to Information-Based Warfare Gambles with National Security." Signal 49 (July 1995): 67-69.

Campen, Alan D. "Vulnerability of Info Systems Demands Immediate Action." National Defense 80 (November 1995): 26-27.
Military's reliance on commercial communications infrastructure is discussed.

Caravella, Frank J. "ADA's [Air Defense Artillery's] Role in Winning the Information War." Air Defense Artillery (September-October 1995): 2-3.

Casper, Lawrence E., et al. "Knowledge-Based Warfare: A Security Strategy for the Next Century." Joint Force Quarterly, no. 13 (Autumn 1996): 81-89.

Centner, Christopher M. "Precision-Guided Propaganda: Exploiting the U.S. Information Advantage in Peacetime." Strategic Review 25 (Spring 1997): 35-41.

Chambers, Elia C. "Information Warfare: Protecting the Chief's Network!" TIG Brief 48 (November-December 1996): 10-13.

Clapper, James R., Jr., and Eben H. Trevino, Jr. "Critical Security Dominates Information Warfare Moves." Signal 49 (March 1995): 71-72.

Clodfelter, Mark, and John M. Fawcett, Jr. "The RMA [Revolution in Military Affairs] and Air Force Roles, Missions, and Doctrine." Parameters 25 (Summer 1995): 22-29.

"Command, Control Simulation Develops Information Warriors." Signal 51 (February 1997): 25-28.

"Commercial Information Systems Proliferate in Military Operations." Signal 51 (January 1997): 63-65.

"Commercial, Military Information Security Requirements Meld." Signal 50 (May 1996): 108-09.

"Commercial Systems Enhance Information Warfare Capability." Signal 51 (March 1997): 64-65. Based on an award winning paper by MAJ Carl W. Hunt.

Cook, Nick. "Battlespace 2000: Fighting for a Share of the Infowar Market." Interavia 51 (June-July 1996): 43-45.

Cooper, Pat. "$C^3I$ [Command, Control, Communications, and Intelligence], Data Become Battlefield Targets." Defense News 10 (4-10 December 1995): 8, 42.

Cooper, Pat. "Evolving IW [Information Warfare] Faces Established Military Doctrine." Defense News 10 (4-10 December 1995): 10.

Cooper, Pat. "In Cyberspace, U.S. Confronts an Illusive Foe." Defense News 10 (13-19 February 1995): 1, 37.

Cooper, Pat. "Information Laboratory Would Link $C^4$ [Command, Control, Communications, and Computers] Efforts." Defense News 10 (18-24 December 1995): 3, 20.

Cooper, Pat. "Information Warfare Sparks Security Affairs Revolution." Defense News 10 (12-18 June 1995): 1, 66.

Cooper, Pat. "Pentagon Debates Potential of Information Warfare." Defense News 11 (13-19 May 1996): 3, 33.

Cooper, Pat, and Frank Oliveri. "Hacker Exposes U.S. Vulnerability." Defense News 10 (9-15 October 1995): 1, 37.

Cooper, Pat, and Jason Glashow. "New U.S. Army Tenet Focuses on Info Control." Defense News 10 (18-24 December 1995): 12.

Cooper, Pat, and Robert Holzer. "America Lacks Reaction Plan for Info War." Defense News 10 (2-8 October 1995): 3, 37.

Cooper, Pat, and Robert Holzer. "Pentagon Rethinks Art of War: Studies New Role for Information Warfare." Defense News 10 (20-26 February 1995): 3, 28.

Cooper, Pat, and Robert Holzer. "U.S. Navy Stresses IW [Information Warfare] Training at New Facility." Defense News 10 (4-10 December 1995): 14.
Fleet Information Warfare Center, Little Creek Naval Amphibious Base, VA.

Cooperman, Steve. "Spatial Information Management: Making the Digital Battlefield a Reality." Defense Electronics 27 (August 1995): 26-28.

Coroalles, Anthony M. "On War in the Information Age: A Conversation with Carl von Clausewitz." Army 46 (May 1996): 24-34.

Correll, J.T. "The New Waves of War." Editorial. Air Force Magazine 80 (June 1997): 2.

Cortese, Amy. "Warding Off the Cyberspace Invaders." Business Week, no. 3415 (13 March 1995): 92-93.

Covault, Craig. "Cyber Threat Challenges Intelligence Capability." Aviation Week & Space Technology 146 (10 February 1997): 20-21.

Crock, Stan. "We Will Cyber-Bury You." Business Week, no. 3523 (21 April 1997): 6. Author writes that Russia's military is focusing its limited research and development resources on information warfare.

"Crucial Network Imperatives Spawn Information War Peril." Signal 50 (June 1996): 35-38.

Curtis, Ian. "Misinformed about Information War? The Three-Wave Theory Is Under Fire." Defense & Foreign Affairs Strategic Policy 24 (31 March 1996): 4-5.

Cyber Sword: The Professional Journal of Joint Information Operations. San Antonio: US Joint Command and Control Warfare Center. Library holdings begin with Spring 1997 issue.

Czerwinski, Thomas J. "Command and Control at the Crossroads. " Parameters 26 (Autumn 1996): 121-32.

Davis, John W. "Open Source Information." Army 47 (July 1997): 7-9.

Davis, Norman C. "The Marine Corps and Information Operations." Marine Corps Gazette 81 (April 1997): 16-22.

Dearth, Douglas H. "Information War: Rethinking the Application of Power in the 21st Century." Military Intelligence 23 (January-March 1997): 11-16.

DeGroat, Arthur S., and David C. Nilsen. "Information and Combat Power on the Force XXI Battlefield." Military Review 75 (November-December 1995): 56-62.

Devereaux, Christopher. "Combat Leadership and the Media." Proceedings: U.S. Naval Institute 121 (July 1995): 62-65.

"Digital Formats Complicate Information Security Tasks." Signal 51 (February 1997): 21-23.

"Digitized Zephyr Lifting Fog from No Man's Land. " National Defense 80 (September 1995): 32-33. Army pushes information warfare transition.

DiNardo, R.L., and Daniel J. Hughes. "Some Cautionary Thoughts on Information Warfare." Airpower Journal 9 (Winter 1995): 69-79.

"DSB [Defense Science Board] Warns US in Jeopardy from Information Warfare Threat." Journal of Electronic Defense 20 (February 1997): 15.

Eden, Steven J. "Knowledge-Based Warfare Implications." Military Review 77 (March 1997): 49-51.

Edmonds, Albert J. "C4IFTW [Command, Control, Communications, Computers and Intelligence for the Warrior]: Teamwork for the Warrior." Defense, no. 2 (1997): 22-31.

Emmett, Peter. "Information Mania—A New Manifestation of Gulf War Syndrome?" RUSI Journal 141 (February 1996): 19-26.

Evers, Stacey. "Joint Warrior Brings Combined Ops Closer." Jane's Defence Weekly 27 (2 April 1997): 25.
Joint Warrior Interoperability Demonstration Exercise.

Evers, Stacey. "Stopping the Hacking of Cyber Information." Jane's Defence Weekly 25 (10 April 1996): 22-25.

Fogleman, Ronald R. "Information Operations: The Fifth Dimension of Warfare." Defense Issues 10, no. 47 (1995): 1-3.

Fogleman, Ronald R. "Vision 2010 Defines Air Force Future." Air Force Times 57 (9 September 1996): 27.

Fredericks, Brian E. "Information Warfare at the Crossroads." Joint Force Quarterly, no. 16 (Summer 1997): 97-103.
Includes "The Realm of Information Operations" illustration on page 99.

Fulghum, David A. "Computer Combat Rules Frustrate the Pentagon." Aviation Week & Space Technology 147 (15 September 1997): 67-68.

Fulghum, David A. "Cyberwar Plans Trigger Intelligence Controversy: U.S. National Intelligence Agencies, Military at Odds over What Can Be Attacked in a Computer War." Aviation Week & Space Technology 148 (19 January 1998): 52-54.

Fulghum, David A. "Info War Fleet Tapped for Fast Deployment." Aviation Week & Space Technology 148 (9 February 1998): 90-91.

"The Future of Warfare: Select Enemy. Delete." Economist 342 (8 March 1997): 21-24.

Gambel, Daniel W. "MLS [Multi-Level Security]: Data for the DOD [Department of Defense] and the Rest of Us." Defense Electronics 27 (June 1995): 10, 31.

Glashow, Jason. "Army to Focus on System Resistance to Infiltration: Heavy Service Reliance on Computers Creates New Openings for Foes." Defense News 10 (4-10 December 1995): 16.

Goodman, Glenn W., Jr. "The Power of Information." Armed Forces Journal International 132 (July 1995): 24.
Discusses the Air Force's "misunderstood" virtual presence concept.

Gourley, Robert D. "The Devil Is in the Details." Proceedings: U.S. Naval Institute 123 (September 1997): 86-88.
Recommends seven items to test current information warfare concepts.

Grange, David L., and James A. Kelley. "Information Operations for the Ground Commander." Military Review 77 (March-April 1997): 5-12.

Grange, David L., and James A. Kelley. "Victory through Information Dominance." Army 47 (March 1997): 32-37.

Gray, Colin S. "The Changing Nature of Warfare?" Naval War College Review 49 (Spring 1996): 7-22.

Grier, Peter. "At War with Sweepers, Sniffers, Trapdoors, and Worms." Air Force Magazine 80 (March 1997): 20-24.

Grier, Peter. "Information Warfare." Air Force Magazine 78 (March 1995): 34-37.

Grier, Peter. "Preparing for 21st-Century Information War." Government Executive 27 (August 1995): 130-32.

Grimes, Vincent P. "Digitized Zephyr Lifting Fog from No Man's Land." National Defense 80 (September 1995): 32-33.
Army pushes information warfare transition forward with tests, organizational changes.

Guenther, Otto J. "Managing the Race for Information Dominance." Army 47 (June 1997): 23-25.

Guilbault, R.G. "Information Empowerment: The Key Force Multiplier." Defense & Security Electronics 28 (January 1996): 10-14.

Gumahad, Arsenio T., II. "The Profession of Arms in the Information Age." Joint Force Quarterly, no. 15 (Spring 1997): 14-20.
"Top Ten Information Warfare Targets" are listed on page 18.

Hammes, Thomas X. "Don't Look Back, They're Not Behind You." Marine Corps Gazette 80 (May 1996): 72-75.
Hammes writes that warfare will change as the world moves to an information based society.

Hanseman, Robert G. "The Realities and Legalities of Information Warfare." Air Force Law Review 42 (1997): 173-200.

Hardy, Stephen M. "The New Guerrilla Warfare." Journal of Electronic Defense 19 (September 1996): 46-52.
Protecting Department of Defense computer and communications assets.

Hardy, Stephen M. "A Question of Symmetry?" Journal of Electronic Defense 20 (January 1997): 42-44, 63.
Discusses common uses of cryptography and some encryption alternatives.

Hardy, Stephen M. "Should We Fear the Byte Bomb?" Journal of Electronic Defense 19 (January 1996): 42-48.

Harig, Paul T. "The Digital General: Reflections on Leadership in the Post-Information Age." Parameters 26 (Autumn 1996): 133-40.

Harknett, Richard J. "Information Warfare and Deterrence." Parameters 26 (Autumn 1996): 93-107.

Harley, Jeffrey A. "Information, Technology, and the Center of Gravity." Naval War College Review 50 (Winter 1997): 66-87.

Hayes, Richard E., and Gary Wheatley. "Information Warfare and Deterrence." Strategic Forum, no. 87 (October 1996): 1-4.

Holinko, Myron. "Use of the Digital Integrated Lab for Force XXI." Army RD&A (March-April 1996): 9-12.

Houghtaling, Pamela A. "New Information Warfare System Advances into Next Century." Signal 50 (March 1996): 37-39.

Hughes, David. "609th Sqdn. Pursues New Realm of Combat." Aviation Week & Space Technology 144 (29 April 1996): 52-53.
Describes a new Air Force information warfare squadron, the first of its kind, that will serve as the model for similar units.

Hutchison, Katherine K. "Firewalls Offer Capable Internet Security Links: Avoiding a Mugging in Cyberspace Requires Dedicated Security System." National Defense 80 (July-August 1995): 58-60.

"Industry, Government Pursue Data Security Clearinghouse." Signal 51 (March 1997): 69-71.

"Information Afterburners Boost Aerial Operations." Signal 51 (November 1996): 31-33.

"Information Systems, Networks Spark Major Security Challenges." Signal 50 (June 1996): 43.

"Information Warriors Raze Enemy's Vital Data Chains." National Defense 79 (March 1995): 30-31.

"IW [Information Warfare] Squadron to Evaluate Offensive Tactics." Aviation Week & Space Technology 143 (27 November 1995): 54.

Jones, Harry E., II. "Information Dominance for Army XXI: Battlefield Visualization." Military Intelligence 23 (January-March 1997): 8-10.

Kiras, James. "Information Warfare and the Face of Conflict in the Twenty-First Century." Peacekeeping & International Relations 25 (July-August 1996): 8-10.

Kish, Steve C. "Do We Need an Information Warrior?" Marine Corps Gazette 81 (January 1997): 20-22.

Kitfield, James. "Live by the Sword, Die by Software." Government Executive 27 (November 1995): 72.

Knowles, John. "IW [Information Warfare] Battlelab to Go Operational This Month." Journal of Electronic Defense 20 (June 1997): 26.
Located at the Air Intelligence Agency at Kelly Air Force Base in Texas.

Kraus, George F., Jr. "Information Warfare in 2015." Proceedings: U.S. Naval Institute 121 (August 1995): 42-45.

Kuehl, Dan. "Defining Information Power." Strategic Forum, no. 115 (June 1997): 1-4.

Kuehl, Dan. "Defining Information Warfare." ROA National Security Report (November 1997): 31-33.

Kuehl, Dan. "Joint Information Warfare: An Information-Age Paradigm for Jointness." Strategic Forum, no. 105 (March 1997): 1-4.

Kutner, Joshua A. "U.S. Success in Future Battlefield Hinges on Information Advantage." National Defense 82 (December 1997): 24-25.

Laughridge, Gene. "Recent and Not-So-Recent Thinking on Information Operations and the Knowledge War." Army Communicator 20 (Spring-Summer 1995): 32-38.

Lawlor, Maryann. "Science Board Task Force Challenges Defensive Information Warfare Status." Signal 52 (September 1997): 63-66.

Leonhard, Robert R. "Shedding Light on the 'Man in the Dark.'" Army 47 (February 1997): 40-42.

Leser, Jeffrey W.S. "Battle Command: Vision for Success." Military Review 77 (March-April 1997): 52-59.

"Leveraging the Infosphere: Surveillance and Reconnaissance in 2020." Airpower Journal 9 (Summer 1995): 8-25.

Libicki, Martin C. "What Is Information Warfare?" Strategic Forum, no. 28 (May 1995): 1-4.

Longhouser, John E. "Converting Computing Power into Combat Power." Army RD&A (March-April 1996): 4-8.

Lum, Zachary A. "Don't Slam It, Jam It!" Journal of Electronic Defense 19 (May 1996): 42-46.

Lum, Zachary A. "We Want the Airwaves: Defense on the $C^2$ [Command and Control] Front." Journal of Electronic Defense 19 (June 1996): 37-40.

McConville, James E. "U.S. Army Information Operations: Concepts and Execution." Military Intelligence 23 (January-March 1997): 17-22.

McKenna, James T. "Rome Lab Targets Info Warfare Defenses." Aviation Week & Space Technology 145 (12 August 1996): 65-67.

Mahanna, Cory W., and James Gagliarducci. "Army Aviation Bridges Communications on the Battlefield." Military Review 75 (May-June 1995): 42-45.

Mahnken, Thomas G. "War in the Information Age." Joint Force Quarterly, no. 10 (Winter 1995-1996): 39-43.

Mains, Steven J. "Adopting Doctrine to Knowledge-Based Warfare." Military Review 77 (March-April 1997): 93-95.

Mann, Paul. "Cyber Threat Expands with Unchecked Speed." Aviation Week & Space Technology 145 (8 July 1996): 63-64.

"Marine Corps Information Warfare Combines Services' Needs, Defines Their Differences." Signal 50 (July 1996): 61-62.

Martinez, Erasmo A. "Division XXI Intelligence Operations." Military Intelligence 22 (April-June 1996): 19-22.

Matthews, William. "U.S. Army Tackles Data Vulnerability: Makes Plan to Assess Threats, Strengthen Electronic Security." Defense News 11 (5-11 February 1996): 38.

Matthys, Erick T. "Harnessing Technology for the Future." Military Review 75 (May-June 1995): 71-76.

Meadows, Sandra I. "Computer System Intrusion Threat Fuels Information Security Debate." National Defense 80 (October 1995): 16-17.

Meadows, Sandra I. "Information Warriors Raze Enemy's Vital Data Chains." National Defense 79 (March 1995): 30-31.
Tactical commanders vulnerability to information-based, system-disabling weapons.

Meadows, Sandra I. "Warrior Rank Not Respected by Advanced Info Networks." National Defense 82 (July-August 1997): 40-42.

"Modern Battlefields Demand Stalwart Industry Practices." Signal 50 (April 1996): 43-46.

Molander, Roger C., Andrew S. Riddile, and Peter A. Wilson. "Strategic Information Warfare: A New Face of War." Parameters 26 (Autumn 1996): 81-92.

Morris, Chris, Janet Morris, and Thomas Baines. "Weapons of Mass Protection: Nonlethality, Information Warfare, and Airpower in the Age of Chaos." Airpower Journal 9 (Spring 1995): 15-29.

Morton, Oliver. "Defence Technology: The Information Advantage." Economist 335 (10 June 1995): Survey pp. 5-7.

Mowery, Beverly P. "Information Determines the Battlespace as World Changes Camouflage Threats." Signal 50 (April 1996): 65-69.
Highlights of discussions at the Armed Forces Communications and Electronics Association Western Conference and Exposition, held in January 1996.

"Multilevel Security Ensures Hardy Information Integrity." Signal 51 (June 1997): 93-94.

Murphy, Dennis M. "Information Operations on the Nontraditional Battlefield." Military Review 76 (November-December 1996): 16-18.

Mussington, David. "Throwing the Switch in Cyberspace." Jane's Intelligence Review 8 (July 1996): 331-34.

Nekoba, Barbara. "Open Source Information and the Marine Corps." Marine Corps Gazette 81 (June 1997): 38-40.

"The New Dimension." Economist 335 (10 June 1995): Survey pp. 8-10.
Discusses the information logistics of military strategy.

"No Sheriffs Patrol Universal Cyberspace Frontier Towns." Signal 50 (June 1996): 39-42.

Nowowiejski, Dean A. "Achieving Digital Destruction: Challenges for the M1A2 Task Force." Armor 104 (January-February 1995): 21-24.

Nye, Joseph S., Jr., and William A. Owens. "America's Information Edge." Foreign Affairs 75 (March-April 1996): 20-36.

Oliveri, Frank. "U.S. Air Force Steps Up Battle against Intruders: IW [Information Warfare] Defense Includes Upgrades, Base Training." Defense News 10 (4-10 December 1995): 12.

Owens, William A. "The Emerging System of Systems." Proceedings: U.S. Naval Institute 121 (May 1995): 35-39.

Paige, Emmett, Jr. "The Future of Information Security." Defense Issues 11, no. 71 (1996): 1-3.

Peters, Ralph. "Constant Conflict." Parameters 27 (Summer 1997): 4-14.
Examines the global expansion of information and its potentially destructive effects on individuals and cultures.

Petersen, John L. "Info War: The Next Generation." Proceedings: U.S. Naval Institute 123 (January 1997): 60-62.

"Planners Seek New Models to Study Information Wars." National Defense 81 (July-August 1996): 57.

"Plug-and-Play Naval Network Profits from New Technology: Navy's Copernicus Vision for Command, Control, Information Warfare Focuses on Joint Systems." National Defense 81 (December 1996): 30-31.

Potter, David L. "Information Warfare: Malicious Software and Technology." Military Intelligence 23 (January-March 1997): 34-37.

"Rapid Technology Growth Spawns Land Information Warfare Activity." Signal 50 (July 1996): 51-54.

Rathmell, Andrew. "Netwar in the Gulf." Jane's Intelligence Review 9 (January 1997): 29-32.

Reardon, Thomas M. "Information Warfare: Protecting Force Sustainment." Military Intelligence 23 (January-March 1997): 25-27.

"Redundancy, Robustness Protect Vital National Information Links." Signal 50 (May 1996): 36-39.

Reitinger, Kurt C. "Command and Control for Third Wave Warfare." Army 45 (February 1995): 9-14.

Riccardelli, Richard F. "The Information and Intelligence Revolution." Military Review 75 (September-October 1995): 82-87.

Richardson, Doug. "Hacker Warfare: Threat of the Future?" Armada International 21 (August-September 1997): 64-74.

Richardson, Doug. "Information Warfare—New Threats and New Opportunities." Asian Defence Journal, no. 4 (April 1997): 50-55.

Robins, W.J.P. "Information Age Operations." RUSI Journal 142 (June 1997): 37-41.

Robinson, Clarence A., Jr. "Army Information Operations Protect Command and Control." Signal 50 (July 1996): 47-50.

Robinson, Clarence A., Jr. "Bosnia's Information River Slows, Trickles to Soldiers." Signal 51 (June 1997): 87-90.

Robinson, Clarence A., Jr. "Commanders Pull Intelligence in Information Warfare Strategy." Signal 48 (August 1994): 29-31.

Robinson, Clarence A., Jr. "Defense Organization Safeguards War Fighters' Information Flow." Signal 50 (October 1995): 15-18.

Robinson, Clarence A., Jr. "Electronic Combat Techniques Provide Information War Edge." Signal 49 (July 1995): 33-35.

Robinson, Clarence A., Jr. "Encryption Issues Dominate Information Warfare Defenses." Signal 50 (May 1996): 34.

Robinson, Clarence A., Jr. "Information Warfare Demands Battlespace Visualization Grasp." Signal 51 (February 1997): 17-20.

Robinson, Clarence A., Jr. "Information Warfare Strings Trip Wire Warning Strategy." Signal 50 (May 1996): 29-33.

Robinson, Clarence A., Jr. "Redundancy, Robustness Protect Vital National Information Links." Signal 50 (May 1996): 36-39.

Rodgers, James L. "Information Warfare: Nothing New Under the Sun." Marine Corps Gazette 81 (April 1997): 23-29.

Rohde, William E. "What Is Info Warfare?" Proceedings: U.S. Naval Institute 122 (February 1996): 34-38.

Ropelewski, Robert. "Command, Control Priorities Shift, Steady Funding Persists." Signal 50 (May 1996): 41-44.

Ryan, Donald E., Jr. "Implications of Information-Based Warfare." Joint Force Quarterly, no. 6 (Autumn-Winter 1994-1995): 114-16.

Saint, Crosbie E., and Ronald L. Watts. "Comanche Era Fleet: A Combat Multiplier." Military Review 75 (May-June 1995): 39-47.

Salomone, Michael D., and John P. Crecine. "Information-Rich Environments: Organizational Design and Decision-Making Issues." Defense Analysis 13 (August 1997): 181-99.

Schneider, James J. "Black Lights: Chaos, Complexity, and the Promise of Information Warfare." Joint Force Quarterly, no. 15 (Spring 1997): 21-28.

Schwartau, Winn. "'Defense in Depth' for Information Systems Survival." International Journal of Intelligence and Counterintelligence 8 (Summer 1995): 229-34.

Scott, William B. "'Information Warfare' Demands New Approach." Aviation Week & Space Technology 142 (13 March 1995): 85-88.

Scott, William B. "Information Warfare Policies Called Critical to National Security." Aviation Week & Space Technology 145 (28 October 1996): 60-64.

"Security Safeguards Primary Battlefield Support Criterion." Signal 51 (November 1996): 40.

Seffers, George I. "Pentagon Resurrects Top $C^3I$ [Command, Control, Communications and Intelligence] Office: Overturns Closure Decision, Adds Space, Infotech Roles." Defense News 13 (16-22 February 1998): 1, 40.

Shanahan, Stephen W., and Garry J. Beavers. "Information Operations in Bosnia." Military Review 77 (November-December 1997): 53-62.

Sherman, Jason. "Infowar: What Kind of a Defense?" Armed Forces Journal International 135 (August 1997): 28-33.

Sherman, Jason. "Welcome to the Future: The US Army Tests Its Information-Age Brigade in the Desert." Armed Forces Journal International 134 (May 1997): 12-13.

Singer, Abe, and Scott Rowell. "Information Warfare: An Old Operational Concept with New Implications." Strategic Forum, no. 99 (December 1996): 1-4.

Sizer, Richard A. "Land Information Warfare Activity: IO [Information Operations] and IW [Information Warfare] Support to Army XXI." Military Intelligence 23 (January-March 1997): 23-24.

Smith, Edward A., Jr. "Putting It through the Right Window." Proceedings: U.S. Naval Institute 121 (June 1995): 38-40.
Author writes about "precise intelligence."

Smullen, Robert J. "The Infantryman's RMA [Revolution in Military Affairs]." Marine Corps Gazette 80 (January 1996): 22-23.

Snell, Albert E., and Edward J. Keusenkothen. "Mass Destruction Weapons Enter Arsenal of Terrorists." National Defense 79 (January 1995): 20-21.
See especially "Computer Terror" on page 21.

Spiszer, John M. "FM [Field Manual] 100-5 and Information Age Warfare." Military Review 77 (September-October 1997): 15-18.

Stanton, John. "Dilemmas Abound in Crafting National Information Policy." National Defense 82 (July-August 1997): 52-54.
Discusses the Defense Science Board's information warfare-defense report, which provides a rationale for the adoption of aggressive policies for the defense of the national information infrastructure.

Starry, Michael D., and Charles W. Arneson, Jr. "FM [Field Manual] 100-6: Information Operations." Military Review 76 (November-December 1996): 3-15.

Stein, George J. "Information Warfare." Airpower Journal 9 (Spring 1995): 30-39.

Stewart, John F. "Intelligence Strategy for the 21st Century." Military Review 75 (September-October 1995): 75-81.

Strickland, Frank B., Jr. "It's Not about Mousetraps—Measuring the Value of Knowledge for Operators." Joint Force Quarterly, no. 13 (Autumn 1996): 90-96.

Struble, Dan. "What Is Command and Control Warfare?" Naval War College Review 48 (Summer 1995): 89-98.

Szafranski, Richard. "Theory of Information Warfare: Preparing for 2020." Airpower Journal 9 (Spring 1995): 56-65.

Taylor, Edward B. "Building a Minefield Database System." Engineer 26 (December 1996): 14-16, 61.

Tempestilli, Mark. "The Network Force." Proceedings: U.S. Naval Institute 122 (June 1996): 42-46.

Thomas, Timothy L. "Deterring Information Warfare: A New Strategic Challenge." Parameters 26 (Winter 1996-1997): 81-91.

Thomas, Timothy L. "Russian Views on Information-Based Warfare." Airpower Journal 10 (Special Edition 1996): 25-35.

Thompson, Mark. "If War Comes Home." Time 146 (21 August 1995): 44-46.
Describes an imagined global infowar.

Tirpak, John A. "The New World of Information Warfare." Air Force Magazine 79 (June 1996): 30-35.

Ullman Harlan K. "A New Defence Construct: 'Rapid Dominance.'" RUSI Journal 141 (October 1996): 8-12.

Van Riper, Paul K. "Information Superiority." Marine Corps Gazette 81 (June 1997): 54-62.

Wade, Nicholas. "Method & Madness: Bytes Make Might." New York Times Magazine (12 March 1995): 28-30.

Waller, Douglas. "Onward Cyber Soldiers." Time 146 (21 August 1995): 38-44.

Walsh, Robert S. "Information Enhancement on Today's Battlefield." Marine Corps Gazette 79 (October 1995): 27-29.

Wardynski, E. Casey. "The Labor Economics of Information Warfare." Military Review 75 (May-June 1995): 56-61.

Weible, Jack. "Vulnerable to Attack? Subcommittees Get an Earful on Threats to Information Systems." Air Force Times 57 (14 April 1997): 28.

Welch, Jonathan. "The International Money Market: A Weapon in Waiting?" RUSI Journal 141 (April 1996): 34-40.

Welch, Larry D. "Dominating the Battlefield (Battlespace)." Journal of Electronic Defense (Supplement to January 1997): 10-14.

Whitehead, YuLin. "Information as a Weapon: Reality versus Promises." Airpower Journal 11 (Fall 1997): 40-54.

Williams, Robert H. "Info Warfare Attacks Score in Military's Risk Pantheon." National Defense 81 (September 1996): 16-17.

Williamson, John. "Winning the Data War." Jane's Defence Weekly 23 (20 May 1995): 44-46.

Wilson, G.I., and Frank Bunkers. "Uncorking the Information Genie." Marine Corps Gazette 79 (October 1995): 29-31.

Wilson, Johnnie E. "The Information Age Army." Army 47 (June 1997): 14-16.

Wood, John R. "Lessons Learned in Information Age Warfare." Army 46 (February 1996): 32-44.

Zimmerman, Stan. "The Battle of the Lasting Impression." Proceedings: U.S. Naval Institute 123 (May 1997): 44-47.
Focuses on the media's role in the military strategists' decision cycle.

## INFORMATION HIGHWAY

### Books and Documents

Alexander, David, and Jerome Preisler. Infosurfing through the Net: How to Get On-Line Computer Services and Ride the Information Wave. New York: Avon Books, 1995. 214pp. (QA76.55 .A44 1995)

Altschiller, Donald, ed. The Information Revolution. New York: Wilson, 1995. 241pp. (HE7572 .U6I54 1995)

Anderson, Robert H., and Anthony C. Hearn. An Exploration of Cyberspace Security R&D Investment Strategies for DARPA [Defense Advanced Research Projects Agency]: "The Day After...in Cyberspace II." Santa Monica: 1996. 67pp. (QA76.9 .A25D18 1996)

Anderson, Robert H., et al. Universal Access to E-Mail: Feasibility and Societal Implications. Santa Monica: Rand, 1995. 267pp. (HE6239 .E54U55 1995)

Aspen Institute. Building a Global Information Society: Report of the Aspen Institute Roundtable on International Telecommunications, July 26-30, 1995, Aspen, Colorado. Kenneth G. Robinson, rapporteur. Washington: Aspen Institute, 1996. 69pp. (HE7645 .A86 1995)

Bacard, André. The Computer Privacy Handbook. Berkeley: Peachpit Press, 1995. 274pp. (QA76.9 .A25B33 1995)

Baer, Walter S. Government Investment in Telecommunications Infrastructure. Santa Monica: Rand, 1995. 11pp. (HE7572 .U6B22 1995)
Reprinted from The Changing Nature of Telecommunications/Information Infrastructure, National Academy Press, 1995. (HE7572 .U6C53 1995)

Benson, Allen C. The Complete Internet Companion for Librarians. New York: Neal-Schuman, 1995. 405pp. (TK5105.875 .I57B46 1995)

Bernard, Ryan. The Corporate Intranet: Create and Manage an Internal Web for Your Organization. New York: Wiley, 1996. 395pp. (TK5105.888 .B47 1996)

Brock, Jack L., Jr., and Keith A. Rhodes. Information Security: Computer Hacker Information Available on the Internet: Testimony before the Permanent Subcommittee on Investigations, Committee on Governmental Affairs, U.S. Senate. Washington: US General Accounting Office, 5 June 1996. 8pp. (TK5105.875 .I57B65 1996)

Bryce, James Y. Special Edition Using ISDN [Integrated Services Digital Networks]. Indianapolis: Que, 1995. 546pp. (TK5103.75 .B79 1995)

Burke, John. Learning the Internet: A Workbook for Beginners. New York: Neal-Schuman, 1996. 138pp. (TK5105.875 .I57B87 1996)

Burstein, Daniel, and David Kline. Road Warriors: Dreams and Nightmares along the Information Highway. New York: Dutton, 1995. 466pp. (HE7572 .U6B87 1995)

Campen, Alan D., Douglas H. Dearth, and R. Thomas Goodden, eds. Cyberwar: Security, Strategy, and Conflict in the Information Age. Fairfax: AFCEA International Press, 1996. 296pp. (UA10.5 .C94 1996)

Cawthorne, Jon E., and Richard Bleiler. Internet Training in ARL [Association of Research Libraries] Libraries. SPEC Kit 220. Washington: Association of Research Libraries, Office of Management Services, 1997. 173pp. (Z665 .S6 no.220)

Chapman, D. Brent, and Elizabeth D. Zwicky. Building Internet Firewalls. Sebastopol: O'Reilly, 1995. 517pp. (TK5105.875 .I57C31 1995)

Clark, Charles S. Clashing over Copyright: Is Intellectual Property Safe in the Internet Age? CQ Researcher Vol. 6, No. 42. Washington: Congressional Quarterly, 8 November 1996. 24pp. (H35 .E32 1996 v.6 no.42)

Clark, Charles S. Regulating the Internet: Can the Use of Cyberspace Be Governed? CQ Researcher Vol. 5, No. 24. Washington: Congressional Quarterly, 30 June 1995. 24pp. (H35 .E32 1995 v.5 no.24)

Comer, Douglas E. The Internet Book: Everything You Need to Know about Computer Networking and How the Internet Works. Englewood Cliffs: Prentice Hall, 1995. 312pp. (TK5105.875 .I57C65 1995)

Cooper, Frederic J., et al. Implementing Internet Security. Indianapolis: New Riders, 1995. 378pp. (TK5105.59 .I44 1995)

Cromar, Patrick F, Anthony G. Wiley, and Robert L. Tremaine. Navigating the Digital Environment: A Program Manager's Perspective. Fort Belvoir: Defense Systems Management College Press, December 1996. 1 vol. (U428 .D41C76 1996)

Dizard, Wilson, Jr. Meganet: How the Global Communications Network Will Connect Everyone on Earth. Boulder: Westview Press, 1997. 262pp. (HE7631 .D59 1997)

Drake, William J., ed. The New Information Infrastructure: Strategies for U.S. Policy. New York: Twentieth Century Fund Press, 1995. 448pp. (HC110 .I55N49 1995)

Ernst, Warren. Using Netscape. Indianapolis: Que, 1995. 357pp. (TK5105.882 .E76 1995)

Garfinkel, Simson, and Gene Spafford. Practical UNIX and Internet Security. 2d ed. Sebastopol: O'Reilly, 1996. 971pp. (QA76.9 .A25G351 1996)

Garlock, Kristen L., and Sherry Piontek. Building the Service-Based Library Web Site: A Step-by-Step Guide to Design and Options. Chicago: American Library Association, 1996. 101pp. (Z674.75 .W67G37 1996)

Gates, Bill. The Road Ahead. New York: Viking, 1995. 286pp. (HE7572 .U6G38 1995) Library also has audiocassette. (Cassettes CASS 292)

Gilster, Paul. The New Internet Navigator. New York: Wiley, 1995. 735pp. (TK5105.875 .I57G56 1995)

Hahn, Harley. Harley Hahn's Internet & Web Yellow Pages. Berkeley: Osborne/McGraw-Hill, 1997. 904pp. + 1 CD-ROM disc. (TK5105.875 .I57H343 1997)

Hall, Brandon, and John S.F. Graham. Survival Guide for Internet Training. Sunnyvale: Multimedia & Internet Training Newsletter, 1997. 62pp. (TK5105.888 .H25 1997)

Junor, Bill, and Chris DeMontravel. Internet: The User's Guide for Everyone. 2d ed., enl. & updated. Boston: Branden, 1995. 218pp. (TK5105.875 .I57J86 1995)

Kievit, James, and Steven Metz. The Strategist and the Web Revisited: An Updated Guide to Internet Resources. Carlisle Barracks: US Army War College, Strategic Studies Institute, 17 October 1996. 39pp. (U413 .A661K33 1996)

Kurz, Raymond A. Internet and the Law: Legal Fundamentals for the Internet User. Rockville: Government Institutes, 1996. 249pp. (KF242 .A1K87 1996)

Lemay, Laura. Teach Yourself Web Publishing with HTML 3.0 in a Week. 2d ed. Indianapolis: Sams.net, 1996. 518pp. (QA76.76 .H94L45 1996)

Litan, Robert E., and William Niskanen. Going Digital! A Guide to Policy in the Digital Age. Washington: Brookings Institution Press and Cato Institute, 1998. 91pp. (HF5548.32 .L58 1998)

Lynch, Daniel C., and Leslie Lundquist. Digital Money: The New Era of Internet Commerce. New York: Wiley, 1996. 285pp. (HG1710 .L96 1996)

McGrath, Thomas M., and Maurice R. Vargas. Improving Information Dissemination for the Defense Business Management University. Monterey: US Naval Postgraduate School, March 1995. 180pp. (V425 .U5 TH M25)

Manger, Jason J. The Essential Internet Information Guide. New York: McGraw-Hill, 1995. 515pp. (TK5105.875 .I57M364 1995)

Maxwell, Bruce. How to Access the Federal Government on the Internet, 1997. Washington: Congressional Quarterly, 1996. 455pp. (Ref Z1223 .Z7M25 1996)

Medlock, Michael D. Department of Defense Costing References Web: Phase 1: Establishing the Foundation. McLean: Logistics Management Institute, March 1997. 38pp. (U168 .L642D25 1997)

Microsoft Corporation. Microsoft Internet Information Server Training. Redmond: Microsoft Press, 1996. 430pp. + 1 CD-ROM disk. (TK5105.875 .I57M52 1996)

Morrison, Michael, et al. Java Unleashed. Indianapolis: Sams.net, 1996. 971pp. + 1 CD-ROM. (QA76.73 .J3J38 1996)

National Research Council. Steering Committee on the Changing Nature of Telecommunications/Information Infrastructure. The Changing Nature of Telecommunications/Information Infrastructure. Washington: National Academy Press, 1995. 230pp. (HE7572 .U6C53 1995)

Neuman, W. Russell, Lee McKnight, and Richard J. Solomon. The Gordian Knot: Political Gridlock on the Information Highway. Cambridge: MIT Press, 1997. 324pp. (HC110 .I55N28 1997)

New Riders Publishing. New Riders' Official Internet Yellow Pages. Summer/Fall 1996 ed. Indianapolis: New Riders, 1996. 938pp. (Ref TK5105.875 .I57N48 Summer/Fall 1996)

Newby, Gregory B., ed. Mecklermedia's Official Internet World Internet Yellow Pages. 1996 ed. Foster City: IDG Books Worldwide, 1996. 908pp. + 1 CD-ROM disc. (TK5105.975 .I57M39 1996)

Riley, Margaret, Frances Roehm, and Steve Oserman. The Guide to Internet Job Searching. Lincolnwood: VGM Career Horizons, 1996. 213pp. (HF5382.7 .R557 1996)

Ritchey, Tim. Programming with Java. Indianapolis: New Riders, 1995. 389pp. (QA76.73 .J38R58 1995)

Rosenfeld, Louis, Joseph Janes, and Martha Vander Kolk. The Internet Compendium: Subject Guides to Social Sciences, Business and Law Resources. New York: Neal-Schuman, 1995. 424pp. (H61.95 .I58 1995)

Stoll, Clifford. Silicon Snake Oil: Second Thoughts on the Information Highway. New York: Doubleday, 1995. 247pp. (QA76.9 .C66S88 1995)

Tillman, Hope N., ed. Internet Tools of the Profession: A Guide for Special Librarians. Washington: Special Libraries Association, 1995. 200pp. (Ref QA76.55 .I68 1995)

Turecki, Gwen, ed. Cyberhound's Guide to Internet Databases. Detroit: Gale Research, 1996. 1062pp. (Ref TK5105.875 .I57C92 1996)

US Defense Intelligence Agency. "The Internet as a Tool for All-Source Analysis." Lesson 004 in Open Source Training Course. Oakton: Open Source Solutions, 1996. 1 vol. (UA428 .D352O6 1996)

US General Accounting Office. Information Superhighway: An Overview of Technology Challenges: Report to the Congress. Washington: US General Accounting Office, January 1995. 84pp. (HE7572 .U6U55 1995)

US General Accounting Office. Internet and Electronic Dial-Up Bulletin Boards: Information Reported by Federal Organizations: Report to the Chairman, Committee on Appropriations and Committee on Governmental Affairs, U.S. Senate. Washington: US General Accounting Office, June 1997. 44pp. (TK5105.875 .I57U53 1997)

Valauskas, Edward J., and Nancy R. John, eds. The Internet Initiative: Libraries Providing Internet Services and How They Plan, Pay, and Manage. Chicago: American Library Association, 1995. 220pp. (Z674 .I59 1995)

Wiggins, Richard W. The Internet for Everyone: A Guide for Users and Providers. New York: McGraw-Hill, 1995. 655pp. (TK5105.875 .I57W54 1995)

Wresch, William. Disconnected: Haves and Have-Nots in the Information Age. New Brunswick: Rutgers University Press, 1996. 268pp. (T58.5 .W74 1996)

## Videos

Masie, Elliott, and Cathy DiMiceli. Learning on the Information Highway: How and When Can Our Corporation Use the Internet & Networks for Workforce Learning. Minneapolis: Lakewood, 1995. 1 videorecording, 30 mins. (Videos HD30.335 .L43 1995)

US Air Force Institute of Technology. School of Logistics and Acquisition Management. The Internet: How to Conduct Quality Research. Denver: VU Videos, 1996. 1 videorecording, 37 mins. (Videos ZA4201 .I57 1996)

WGB Educational Foundation. High Stakes in Cyberspace. Alexandria: PBS Video, 1995. 1 videorecording, 57 mins. (Videos QA76.9 .C659F76 1995)
Segment of the television program Frontline that aired 31 October 1995.

## Periodical Articles


Archer, Raymond A., III. "Logistics Mosaic: Translating the Vision through the World Wide Web." Logistics Spectrum 30 (November-December 1996): 15-17.

Arkin, William M. "The Army on the Web." Army 47 (May 1997): 32-36.

Arkin, William M. "Special Operations Online." Army 47 (April 1997): 34.

Arkin, William M. "USMC.MIL: The Marine Corps on the Internet." Marine Corps Gazette 81 (June 1997): 44-46.

Bates, Troy R. "Internet Support to Expeditionary Forces: Filling the Intelligence Gap." Marine Corps Gazette 81 (June 1997): 41-43.

Bilhartz, Gregory J. "Putting the Internet to Work in Security Assistance." DISAM Journal 19 (Spring 1997): 103-06.

Bird, Julie. "Access to E-Mail on the Internet Is Providing Vital Links to Home for Airmen around the World." Air Force Times 57 (27 January 1997): 12-13.

Campen, Alan D. "Cooperative Effort Encourages Safe Information Highway Travel." Signal 50 (October 1995): 43-44.

Campen, Alan D. "Personal Information Watchman and Things That Go Bump in the Night." Signal 50 (February 1996): 56-57.

Campen, Alan D. "Surfing the Web for Information Services." Signal 51 (January 1997): 76-83.

"Communicating on the Internet with NGAUS [National Guard Association of the United States]." National Guard 50 (April 1996): 66-68.

Corbin, Lisa. "Speeding Up the Data Superhighway: Government Paves the Way for the Private Sector." Government Executive 27 (February 1995): 14-22.

Gourley, Scott R. "JCALS [Joint Computer-Aided Logistic Support]: Paving the Manufacturing Lane on the Information Superhighway." Defense Electronics 27 (February 1995): 20-22.

Grier, Peter. "In the Beginning There Was ARPANET [Advanced Research Projects Agency Network]." Air Force Magazine 80 (January 1997): 66-69.

Hudson, Neff. "Military Gets Wired: Internet Connection Puts World at Service Members' Fingertips." Army Times 56 (2 October 1995): 14-16.

Hutchison, Katherine K. "Firewalls Offer Capable Internet Security Links: Avoiding a Mugging in Cyberspace Requires Dedicated Security System." National Defense 80 (July-August 1995): 58-60.

Ide, Douglas. "Internet Basics." Soldiers 50 (February 1995): 32-33.

"Internet Explores Multilevel Communication Security Realm." Signal 51 (March 1997): 45-48.

"The Internet: The Accidental Superhighway." Economist 336 (1 July 1995): Survey pp. 3-18.

Molholm, Kurt N. "DTIC [Defense Technical Information Center]: Information Highway around the Defense Community." Defense, no. 6 (1997): 43-51.

Russ, Merle D. "Log Internet." Army Logistician (March-April 1996): 6-8.

Tompkins, Alan D. "The Internet: Resource or Quagmire?" Military Intelligence 23 (January-March 1997): 40-41.

Vest, Gary D., Jacquelin J. Hux, and Judd E. Squitier. "Weaving DENIX [Defense Environmental Network and Information Exchange] on the Web!" Military Engineer 89 (April-May 1997): 36-37.

"Welcome to Cyberspace." Time 145, no. 12 (Spring 1995): entire Special Issue.

Wentworth, Stephen F. "Internet Connectivity and the Security Assistance Community." DISAM Journal 18 (Winter 1995-1996): 84-89.

## INFORMATION TECHNOLOGY, MANAGEMENT, OTHER INFORMATION CONCEPTS

### Books and Documents

Alberts, David S. The Unintended Consequences of Information Age Technologies: Avoiding the Pitfalls, Seizing the Initiative. Fort McNair: National Defense University, Institute for National Strategic Studies, Center for Advanced Concepts and Technology, 1996. 62pp. (U411 .I6A42 1996)

Alberts, David S., and Daniel S. Papp, eds. The Information Age: An Anthology on Its Impacts and Consequences. Fort McNair: National Defense University, Institute for National Strategic Studies, Center for Advanced Concepts and Technology, 1997. Vol. 1, pts. 1-4. (U411 .I6I52 1997 v.1, pts.1-4)

Alderman, Ellen, and Caroline Kennedy. The Right to Privacy. New York: Knopf, 1995. 405pp. (KF1262 .A95 1995)

Alexander, Michael. The Underground Guide to Computer Security: Slightly Askew Advice on Protecting Your PC and What's On it. Reading: Addison-Wesley, 1996. 239pp. (QA76.9 .A25A45 1996)

Allard, Kenneth. Command, Control, and the Common Defense. Rev. ed. Fort McNair: National Defense University, Center for Advanced Concepts and Technology, 1996. 359pp. (UA23 .A593 1996)

Aspen Institute. The Future of Community and Personal Identity in the Coming Electronic Culture: A Report of the Third Annual Aspen Institute Roundtable on Information Technology, Aspen, Colorado, August 18-21, 1994. David Bollier, rapporteur. Washington: Aspen Institute Communications and Society Program, 1995. 47pp. (HC79 .I55B64 1995)

Babe, Robert E. Communication and the Transformation of Economics: Essays in Information, Public Policy, and Political Economy. Boulder: Westview Press, 1995. 270pp. (HB133 .B3 1995)

Bauer, Martin, ed. Resistance to New Technology: Nuclear Power, Information Technology, and Biotechnology. New York: Cambridge University Press, 1995. 422pp. (T174.5 .R48 1995)

Belknap, Maggie. Military Decision Making in the Information Age. Newport: US Naval War College, Joint Military Operations Department, 9 November 1996. 19pp. (V420 .B241 1996)

Bowsher, Charles A. Government Reform: Using Reengineering and Technology to Improve Government Performance: Testimony before the Committee on Governmental Affairs, United States Senate. Washington: US General Accounting Office, 2 February 1995. 20pp. (JK468 .A8B58 1995)

Boyle, James. Shamans, Software, and Spleens: Law and the Construction of the Information Society. Cambridge: Harvard University Press, 1996. 270pp. (K1401 .B69 1996)

Brock, Jack L., Jr. Information Management: Technical Review of the White House Data Base: Statement before the Subcommittee on National Economic Growth, Natural Resources, and Regulatory Affairs, Committee on Government Reform and Oversight, House of Representatives. Washington: US General Accounting Office, 10 September1996. 7pp. (JK554 .B65 1996)

Brostek, Michael. Paperwork Reduction: Governmentwide Goals Unlikely to Be Met: Statement before the Committee on Small Business, U.S. Senate. Washington: US General Accounting Office, 4 June 1997. 19pp. (JK468 .P34B651 1997)

Brostek, Michael, and Peter F. Guerrero. Paperwork Reduction: Burden Reduction Goal Unlikely to Be Met: Statement before the Committee on Small Business, U.S. Senate. Washington: US General Accounting Office, 5 June 1996. 20pp. (JK468 .P34B65 1996)

Campbell-Kelly, Martin, and William Aspray. Computer: A History of the Information Machine. New York: Basic Books, 1996. 342pp. (QA76.17 .C36 1996)

Clark, Charles S. The Future of Libraries: Is the Rush to High Technology Misguided? CQ Researcher Vol. 7, No. 20. Washington: Congressional Quarterly, 23 May 1997. 24pp. (H35 .E32 1997 v.7 no.20)

Clark, Robert P. The Global Imperative: An Interpretive History of the Spread of Humankind. Boulder: Westview Press, 1997. 193pp. (GN370 .C53 1997)

Dam, Kenneth W., and Herbert S. Lin, eds. Cryptography's Role in Securing the Information Society. Washington: National Academy Press, 1996. 688pp. (TK5102.94 .C78 1996)

Dodaro, Gene L. Chief Information Officers: Ensuring Strong Leadership and an Effective Council: Statement before the Subcommittee on Government Management, Information and Technology, Committee on Government Reform and Oversight, House of Representatives. Washington: US General Accounting Office, 27 October 1997. 15pp. (JK468 .A8D52 1997)

Dodaro, Gene L. Paperwork Reduction Act: Reauthorization Can Strengthen Government's Management of Information and Technology: Testimony before the Subcommittee on National Economic Growth, Natural Resources, and Regulatory Affairs, Committee on Government Reform and Oversight, House of Representatives. Washington: US General Accounting Office, 7 February 1995. 15pp. (JK468 .P34D521 1995)

Drake, William J., ed. The New Information Infrastructure: Strategies for U.S. Policy. New York: Twentieth Century Fund Press, 1995. 448pp. (HC110 .I55N49 1995)

Ebert, Donald E. The Evolution of Revolution: Application of Information Technology in Military Logistics. Strategy Research Project. Carlisle Barracks: US Army War College, 28 March 1997. 29pp. (AD-A326-678)

Fried, Louis. Managing Information Technology in Turbulent Times. New York: Wiley, 1995. 339pp. (T58.6 .F75 1995)

Garfinkel, Simson. PGP: Pretty Good Privacy. Sebastopol: O'Reilly, 1995. 393pp. (QA76.9 .A25G2 1995)

Gates, Bill. The Road Ahead. New York: Viking, 1995. 286pp. (HE7572 .U6G38 1995) Library also has audiocassette. (Cassettes CASS 292)

Government Executive. The Federal Technology Source, 1997-98: Who's Who in Government Technology. Washington: Government Executive, 1997. 172pp. (T58.5 .F44 1997/98)

Grenier, Raymond, and George Metes. Going Virtual: Moving Your Organization into the 21st Century. Upper Saddle River: Prentice Hall PTR, 1995. 320pp. (HD30.2122 .G74 1995)

Hoenig, Christopher W. Information Management Reform: Effective Implementation Is Essential for Improving Federal Performance: Testimony before the Subcommittee on Oversight of Government Management and the District of Columbia, Committee on Governmental Affairs, United States Senate. Washington: US General Accounting Office, 17 July 1996. 13pp. (HD30.2 .H63 1996)

Hoenig, Christopher W. Information Technology: Best Practices Can Improve Performance and Produce Results: Testimony before the Subcommittee on Government Management, Information and Technology, Committee on Government Reform and Oversight, U.S. House of Representatives. Washington: US General Accounting Office, 26 February 1996. 18pp. (HD30.2 .I54 1996)

Hoenig, Christopher W. Managing Technology Change: Challenges and Opportunities for the United States Senate: Statement before the Committee on Rules and Administration, United States Senate. Washington: US General Accounting Office, 7 December 1995. 16pp. (JK486 .A8H52 1995)

Horn, Kenneth, et al. Performing Collaborative Research with Nontraditional Military Suppliers. Santa Monica: Rand, 1997. 53pp. (U393.5 .P47 1997)

Jones, Steve. CyberSociety: Computer-Meditated Communication and Community. Thousand Oaks: Sage, 1995. 241pp. (TK5105.5 .C92 1995)

Kasperik, Donald J. Telemedicine Technology: Will It Enhance Combat Casualty Care on the 21st Century Battlefield? Strategy Research Project. Carlisle Barracks: US Army War College, 15 April 1997. 39pp. (AD-A326-784)

Klingler, Richard. The New Information Industry: Regulatory Challenges and the First Amendment. Washington: Brookings Institution Press, 1996. 208pp. (HD9999 .I493U645 1996)

Koch, Tom. The Message Is the Medium: Online All the Time for Everyone. Westport: Praeger, 1996. 228pp. (QA76.55 .K63 1996)

Koelsch, Frank. The Infomedia Revolution: How It Is Changing Our World and Your Life. Toronto: McGraw-Hill Ryerson, 1995. 358pp. (HE7631 .K64 1995)

Leer, Anne C. It's a Wired World: The New Networked Economy. Boston: Scandinavian University Press, 1996. 188pp. (HC79 .I55L44 1996)

Liebowitz, Jay. A Compendium of Critical Educational Information Technology Issues Facing the U.S. Army War College. Carlisle Barracks: US Army War College, Center for Strategic Leadership, 1996. 75pp. (U413 .C75L53 1996)

Liebowitz, Jay. "Much Ado about Something": Lessons Learned about Expert Systems Management. Carlisle Barracks: US Army War College, Center for Strategic Leadership, 1995. 109pp. (U413 .C75L52 1995)

Lynch, Beverly P., ed. Information Technology and the Remaking of the University Library. San Francisco: Jossey-Bass, 1995. 112pp. (LB2331.72 .N48 no.90)

Mansell, William R., Jr. A Strategy for Migrating the Army to a Joint Military Personnel Management System. Strategy Research Project. Carlisle Barracks: US Army War College, 19 May 1997. 36pp. (AD-A326-768)

Maxwell, Arthur G. Joint Training for Information Managers. Fort McNair: National Defense University, 1996. 49pp. (U411 .I6M38 1996)

Mixon, Benjamin R. Information Age Technology: The Common Engine of Military and Economic Power. Strategy Research Project. Carlisle Barracks: US Army War College, 15 April 1996. 21pp. (AD-A308-733)

Nichiporuk, Brian, and Carl H. Builder. Information Technologies and the Future of Land Warfare. Santa Monica: Rand, 1995. 87pp. (UA25 .N53 1995)

Ninkovich, Frank A. U.S. Information Policy and Cultural Diplomacy. Headline Series No. 308. New York: Foreign Policy Association, Fall 1996. 63pp. (E744 .H43 no.308)

Olaisen, Johan L., Erland Munch-Petersen, and Patrick Wilson, eds. Information Science: From the Development of the Discipline to Social Interaction. Boston: Scandinavian University Press, 1996. 325pp. (Z665 .I583 1996)

Rawlins, Gregory J.E. Moths to the Flame: The Seductions of Computer Technology. Cambridge: MIT Press, 1996. 184pp. (QA76.9 .C66R39 1996)

Richard, John S. The Learning Army: Approaching the 21st Century as a Learning Organization. Strategy Research Project. Carlisle Barracks: US Army War College, 22 May 1997. 27pp. (AD-A327-188)

Rosenblatt, Kenneth S. High-Technology Crime: Investigating Cases Involving Computers. San Jose: KSK, 1995. 603pp. (QA76.9 .A25R57 1995)

Sanford, Timothy R., ed. Preparing for the Information Needs of the Twenty-First Century. San Francisco: Jossey-Bass, 1995. 100pp. (L11 .N494 no.85)

Schement, Jorge R., and Terry Curtis. Tendencies and Tensions of the Information Age: The Production and Distribution of Information in the United States. New Brunswick: Transaction, 1995. 285pp. (QA76.9 .C66S32 1995)

Sichel, Daniel E. The Computer Revolution: An Economic Perspective. Washington: Brookings Institution Press, 1997. 152pp. (HD9696 .C63U59 1997)

Sifonis, John G., and Beverly Goldberg. Corporation on a Tightrope: Balancing Leadership, Governance, and Technology in an Age of Complexity. New York: Oxford University Press, 1996. 315pp. (HD57.7 .G66 1996)

Slouka, Mark. War of the Worlds: Cyberspace and the High-Tech Assault on Reality. New York: BasicBooks, 1995. 185pp. (QA76.9 .C66S58 1995)

Stoll, Clifford. Silicon Snake Oil: Second Thoughts on the Information Highway. New York: Doubleday, 1995. 247pp. (QA76.9 .C66S88 1995)

Tapscott, Don. The Digital Economy: Promise and Peril in the Age of Networked Intelligence. New York: McGraw-Hill, 1996. 342pp. (HD79 .I55T368 1996)

Tiffin, John, and Lalita Rajasingham. In Search of the Virtual Class: Education in an Information Society. New York: Routledge, 1995. 204pp. (LB1044.84 .T54 1995)

US General Accounting Office. Assessing Risks and Returns: A Guide for Evaluating Federal Agencies' IT [Information Technology] Investment Decision-Making. Washington: US General Accounting Office, Accounting and Information Management Division, February 1997. 109pp. (JK468 .A8U535 1997)

US General Accounting Office. Defense IRM [Information Resources Management]: Strategy Needed for Logistics Information Technology Improvement Efforts: Report to Congressional Requesters. Washington: US General Accounting Office, November 1996. 26pp. (UA943 .U534 1996)

US General Accounting Office. Information Security: Opportunities for Improved OMB [Office of Management and Budget] Oversight of Agency Practices: Report to Congressional Requesters. Washington: US General Accounting Office, September 1996. 48pp. (JK468 .A8U534 1996)

US General Accounting Office. Information Technology: A Statistical Study of Acquisition Time: Report to the Ranking Minority Member, Committee on Government Affairs, U.S. Senate. Washington: US General Accounting Office, March 1995. 51pp. (JK468 .A8U531 1995)

US General Accounting Office. Information Technology Investment: A Governmentwide Overview: Report to the Chairman, Committee on Governmental Affairs, U.S. Senate. Washington: US General Accounting Office, July 1995. 29pp. (JK469 .U533 1995)

US General Accounting Office. Information Technology Investment: Agencies Can Improve Performance, Reduce Costs, and Minimize Risks: Report to Congressional Requesters. Washington: US General Accounting Office, September 1996. 75pp. (JK468 .A8U533 1996)

US General Accounting Office. Accounting and Information Management Division. Executive Guide: Information Security Management: Learning from Leading Organizations: Exposure Draft. Washington: US General Accounting Office, November 1997. 68pp. (JK468 .A8U536 1997)

US Joint Chiefs of Staff. Strategic Information Technology Plan. Washington: US Joint Chiefs of Staff, September 1995. 72pp. (UA23.7 .S76 1995)

Valentine, William D., Jr. Leveraging Technology: Using the Practical Essence of Operational Art to Translate Information into Decisions. Newport: US Naval War College, Department of Operations, 16 June 1995. 18pp. (V420 .V14 1995)

Willemssen, Joel C. Year 2000 Computing Crisis: Risk of Serious Disruption to Essential Government Functions Calls for Agency Action Now: Statement before the National Commission on Restructuring the Internal Revenue Service. Washington: US General Accounting Office, 27 February 1997. 7pp. (QA76.76 .S64W451 1997)

Willemssen, Joel C. Year 2000 Computing Crisis: Strong Leadership Today Needed to Prevent Future Disruption of Government Services: Statement before the Subcommittee on Government Management, Information and Technology, Committee on Government Reform and Oversight, House of Representatives. Washington: US General Accounting Office, 24 February 1997. 7pp. (QA76.76 .S64W45 1997)

Willemssen, Joel C. Year 2000 Computing Crisis: Time Is Running Out for Federal Agencies to Prepare for the New Millennium: Statement before the Subcommittee on Government Management, Information and Technology, House Committee on Government Reform and Oversight, and the Subcommittee on Technology, House Committee on Science. Washington: US General Accounting Office, 10 July 1997. 8pp. (QA76.76 .S64W452 1997)

Winfield, W. Montague. The Impact of 'Information Age' Technology on Leadership, and Battlefield Command, Control and Communication ($C^3$). Strategy Research Project. Carlisle Barracks: US Army War College, 15 April 1996. 26pp. (AD-A308-714)

Zimmerman, Donald E, and Michel L. Muraski. The Elements of Information Gathering: A Guide for Technical Communicators, Scientists, and Engineers. Phoenix: Oryx Press, 1995. 242pp. (Q224 .Z56 1995)

## Videos

Geer, Daniel, et al. Computer Security. Washington: C-SPAN, 11 February 1997. 2 videorecordings. (Videos QA76.9 .A25C64 1997)
Briefing report to the Chairman, Science Committee and Chairman, Subcommittee on Technology, House of Representatives.

Koughan, Frank, et al. High Stakes in Cyberspace. Alexandria: PBS Video, 1995. 1 videorecording, 57 mins. (Videos QA76.9 .C659F76 1995)

US Joint Chiefs of Staff. Command, Control, Communications, and Computer Systems Directorate. Global Command and Control System. Washington: US Air Force Television Center, October 1995. 1 videorecording, 16 mins. (Videos UB212 .C66 1995)

## Periodical Articles

Acree, Russell G., Jr., and William H. Money. "Breaking Down the 'Stovepipes': Information Technology's Role in Solving the Navy's Logistics Support Challenge." Program Manager 24 (May-June 1995): 12-20.

Allouche, Rémy, and Nathalie Bichat. "Multimedia Products Respond to Evolving Crisis Management, Peacekeeping Needs." Signal 49 (March 1995): 62-63.

Alway, Curt. "Library Systems: 21st Century Technology Today." Defense & Security Electronics 27 (September 1995): 24-26.

Berry, F. Clifton, Jr. "Army Leads the Telemedicine Revolution." Army 45 (September 1995): 38-46.

Clemins, Archie. "IT21 [Information Technology for the 21st Century]: Moving to the 3rd Stage." Proceedings: U.S. Naval Institute 123 (May 1997): 51-54.

"Comm-Data Systems Merger: A Sign of the Times." Marine Corps Gazette 80 (July 1996): 48-51.

Crowell, William P. "Information Security in a Third Wave Society." Defense Issues 12, no. 2 (1997): 1-3.

de Czege, Huba Wass. "Mobile Strike Force: A 2010 Potential Force." Military Review 76 (July-August 1996): 70-84.

"Defense Restructures Business, Exploits Information Advances." Signal 49 (February 1995): 42-43.

"Developing an Integrated Joint Transportation Information System." Army Logistician (March-April 1997): 46-47.

Garrett, Anthony R. "Parallel Planning: Managing the Information Flow." Infantry 85 (January-February 1995): 19-20.

Garrett, Stephen F. "Logistics Staff Processes in the Information Age." Military Review 76 (July-August 1996): 49-51.

Gonzales, Orlando E. "Reaping the Rewards: Applying and Realizing the Benefits of Information Technology for Defense Logistics." Armed Forces Journal International 134 (October 1996): 52-56.

Green, Gerald. "Army Information Technology Conference Highlights: Planning for the 21st Century." Journal of Electronic Defense 20 (May 1997): 18-19.

Hammes, Thomas X. "Information Systems Design, or Building Computers for Grunts." Marine Corps Gazette 80 (January 1996): 35-37.

"High-Tech Commo, Sensors Bolster U.S., Allied Peacekeeping in Bosnia." National Defense 80 (March 1996): 18-19.

"Information Technology." 8 articles. Defense News 12 (16-22 June 1997): 28-40.

Kasparian, John A. "Marine Corps Networking and Computers: Let's Just Get It Done." Marine Corps Gazette 81 (March 1997): 47-48.

Lesser, Roger. "Data Storage Technology Continues Rapid Advances." Defense Electronics 27 (January 1995): 20-23.

"Military, Industry Partners Grab Information Systems' Brass Ring." Signal 52 (September 1997): 91-94.
Advanced information technology developments highlighted at TechNet '97.

Ohle, David H. "The Campaign Plan." Army 45 (February 1995): 18-20.
A focus of the Force XXI campaign plan is information technologies.

Paige, Emmett, Jr. "Achieving the Integrated Systems Concept." Defense Issues 11, no. 51 (1996): 1-4.

Paige, Emmett, Jr. "Six Emerging Trends in Information Management." Defense Issues 11, no. 16 (1996): 1-3.

Plotnick, Jeff. "Pentagon Tells Planners: Put Away Pencils, Paper." National Defense 81 (December 1996): 38-39.

Reimer, Dennis J. "Reengineering Forces Command for the 21st Century." Army 45 (May 1995): 31-34.

Scherer, Robert D. "Position Reporting System Offers Unsurpassed Clarity." National Defense 81 (December 1996): 36-37.

Soo Hoo, Kevin, Seymour Goodman, and Lawrence Greenberg. "Information Technology and the Terrorist Threat." Survival 39 (Autumn 1997): 135-55.

"A Survey of Defence Technology: The Softwar Revolution." Economist 335 (10 June 1995): 20-page supplement following page 50.

Tenalio, Michael J. "Digital Camera Systems Come to the Battlefield." Defense Electronics 27 (April 1995): 8.

Walsh, Edward J. "Advanced Modeling Braces Inventive Mission Planning." Signal 51 (July 1997): 49-52.

Walsh, Edward J. "Pentagon Joins Other Federal Agencies in New Managed Information Strategy." National Defense 82 (July-August 1997): 50-51.

Welch, Donald J., Jr. "Information Systems: Let's Go Beyond Computer Literacy." Infantry 86 (September-October 1996): 11-13.

## RELATED BIBLIOGRAPHIES

Donnelly, Barbara R., comp. The Internet. Library Notes Vol. 24, No. 2. Newport: US Naval War College, April 1996. 16pp. (Ref)

Gibish, Jane E., comp. Force XXI: A Selected Bibliography. Carlisle Barracks: US Army War College Library, April 1997. 23pp. (U413 .Z92F5 1997)

Gibish, Jane E., comp. Revolution in Military Affairs: A Selected Bibliography. Carlisle Barracks: US Army War College Library, May 1996. 39pp. (U413 .Z92R28 1996)

Hill, Clarence, and Jay Hudson, comps. Bibliography for Information Warfare. Newport: US Naval War College, 1 September 1995. 52pp. (Z6724 .C62H55 1995)

Knuth, Patricia E., comp. Information Resource Management: A Selected Bibliography. Carlisle Barracks: US Army War College Library, February 1995. 34pp. (U413 .Z92I54 1995)

Liu, Lewis-Guodo. The Internet and Library and Information Services: Issues, Trends, and Annotated Bibliography, 1994-1995. Westport: Greenwood Press, 1996. 300pp. (Z674.75 .I58L58 1996)

National Defense University. Institute for National Security Studies. School of Information Warfare and Strategy. Information Warfare: A Working Bibliography. Fort McNair: National Defense University, Advanced Concepts, Technologies, and Information Strategies Directorate, School of Information Warfare and Strategy, 7 August 1996. 36pp. (U411 .I52I52 1996)

Pastorett, Tomma, comp. Information Warfare. Special Bibliography No. 312. Maxwell Air Force Base: US Air University Library, December 1996. 62pp. Available on the Internet <http://www.au.af.mil/au/aul/bibs/infowar/infor.htm>. Accessed 3 December 1997.

Rauch, Marguerite C., comp. Information Warfare. Library Notes Vol. 24, No. 1. Newport: US Naval War College, December 1995. 15pp. (Ref)

Simpson, Diana, comp. "Information Warfare." SOS Current Military Issues Topic. Maxwell Air Force Base: US Air University Library, August 1997. Available on the Internet <http://au.af.mil/au/aul/bibs/infowar/if.htm>. Accessed 28 February 1998.

Thomas, Timothy L. "Russian Information Operations Bibliography." Low Intensity Conflict & Law Enforcement 6 (Summer 1997): 205-15. (Periodical)

US Information Agency. "Creating an Information Society: A Bibliography." Available from <http://www.usis.usemb.se/topical/global/gii/bib.htm>. Internet. Accessed 30 December 1997.